YuShIN, V. V., Cand Tech Sci — (diss) "Determination of the parameters of the internal process of impact-type pneumatic mining machines by electrical measurements," Dnepropetrovsk, 1960, 15 pp (Dnepropetrovsk Mining Institute imeni Artem)

(KL, 40-60, 123)

Research on the parameters of the internal process of the percussion action in pneumatic machines. Izv.vys.ucheb.zav.; gor.zhur. no.2: 113-116 *60. (MIRA 14:5) 1. Dnepropetrovskiy gornyy institut. (Rock drills)

YUSHIN, Vadim Viktorovich; BELOV, V.S., red.1zd-va; MESHCHANKINA, I.S., tekhn. red.

[Using electric measuring methods to study pneumatic mining machinery] Issledovanie shakhtnykh pneumashin elektricheskimi metodami izmereniia. Moskva, Gosgortekhizdat, 1963. 55 p.
(MIRA 16:5)

(Mining machinery--Pneumatic driving)

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KOMAROV, Dmitriy Illarionovich; YUSHIN, Vladimir Alokseyevich; MOROZOVA,
I.I., red.; KISINA, Ye.I., tokhn. red.

[Planning in a fishing collective] Planirovanie v rybolovetskom kolkhoze. Moskva, Pishchepromizdat, 1960. 175 p.

(Fisheries)

(Fisheries)

YUSHIN, V.A.; MUNTYAN, V.M., spets.red.; NOZDRINA, V.A., red.; KISINA, Ye.I., tekhn. red.

[The technical, industrial, and financial plan of a fish-processing plant; methods of compilation] Tekhpromfinplan rybozavoda;

metodika sostavleniia. Moskva, Pishchepromizdat, 1961. 138 p.
(MIRA 14:7)
(Fish processing plants)

BELOUS, N.Kh., st. nauchn. sotr.; KAZANSKIY, Yu.P.; VDOVIN, V.V.;

KIYAROVSKIY, V.M.; KUZNETSOV, V.P.; NIKOLAYEVA, I.V.;

MOVOZHILOV, V.I.; SENDERZON, E.M.; AKAYEV, M.S.; BABIN,

A.A.; HERDNIKOV, A.P.; GORYUKHIH, Yo.Ya.; NAGORSKIY, M.P.;

PIVEN', N.M.; BAKANOV, G.Ye.; GEBLER, I.V.; SMOLYANIHOV,

N.M.; SMOLYANINOVA, S.I.; YUSHIN, V.I.; D'YAKONOVA, N.D.;

REZAPOV, N.M.; KASHTANOV, V.N.; GOL'BERT, A.V.; SIDOROV,

A.P.; GARMASH, A.A.; BYKOV, M.S.; BORODIN, L.V.; RYCHKOV,

L.F.; KUCHIN, M.I.; SHAKHOV, F.N., glav. red.; SHPAKOVSKAYA,

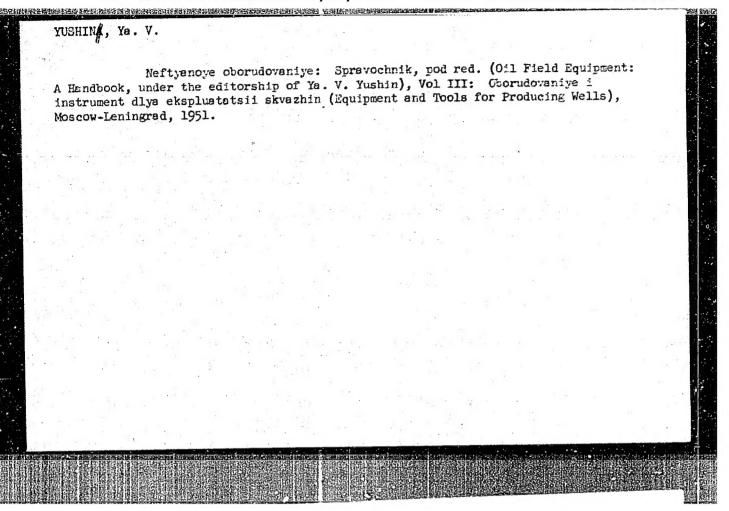
L.I.; red.

[West Siberian iron ore basin] Zapadno-Sibirskii zhelezorudnyi bassein. Novosibirsk, Red.-izd. otdel Sibirskogo otdniia AN SSSR, 1964. 447 p. (MIRA 17:12)

l. Akademiya nauk SSSR. Sibirskoye otdeleniye. Institut geologil i geofiziki. 2. Institut geologii i geofiziki Sibirskogo otdeleniya AN SSSR (for Belous, Kazanskiy, Vdovin, Klyarovskiy, Kuznetsov, Nikolayeva, Novozhilov, Senderzon). 3. Institut gornogo dela (for Akayev). 4. Novosibirskoye geologicheskoye upravleniye Ministerstva geologii i okhrany nedr SSSR (for Babin, Berdnikov, Goryukhin, Nagorskiy, Piven). (Continued on next card)

 BELOUS, N.Kh .-- (continued). Card 2.

Tomskiy politekhnicheskiy institut (for Bakenov, Gebier, Smolyaninov, Smolyaninova). 5. Sibirskiy nauchno-issledovatel'skiy institut geologii, geofiziki i mineral'-nogo syr'ya(for Yushin, D'yakonova, Rezapov, Kashtanov, Gol'bert). 5. Institut ekonomiki sel'skoge khozyaystva (for Garmash). 7. Sibirskiy metallurgicheskiy institut (for Bykov, Borodin, Rychkov). 8. Tomskiy inzhenerno-stroitel'nyy institut (for Kuchin). 9. Chlen-korrespondent AN SSSR (for Shakhov).



SOLOV'YEV, L.D.; YUSHIN, Yu.Ya.

Infrared characteristics of matrix elements in scalar electrodynamics. Zhur. eksp. i teor. fiz. 45 no.4:1202-1207 0 163. (MIRA 16:11)

1. Ob"yedinennyy institut yadernykh issledovaniy i Matematicheskiy institut AN SSSR.

8/0056/65/048/002/0591/0694 Enr(1)/ESC(t) P1-4 J.12(a) ACCESSION PRO 125006519 TITLE: On the infrared characteristics of the vertex part in quantum electro Yushin, Yu. 78. AUTHOR: SOURCE: Zhurnal eksperimentslinov i tsoreticheskov fiziki, v. 48, no. 2, 1964, TOPIC TAGE: quantum electrodynamics, infrared characteristics, vertex part ABSTRACT: The infrared characteristics of the form factors of electron charge and auditional magnetic moment are calculated in the fifth and seventh orders in perturbation theory. It is found that if the vertex part belongs to the matrix element of electron scattering in an external field, the magnitude of β (t) is positive in the physical region to. $\times \left\{ B_1(t) \gamma^n + \frac{1}{4m} B_1(t) (\hat{p}_2 - \hat{p}_1, \gamma^n) - \right\} (\hat{p}_1 + m),$ Cord 1/7 .

then results in returning the matrix element to zero for \$\lambda + 0\$. Physically this corresponds to the impossibility of electron scattering at a non-zero angle without rediation of real photons. "In conclusion the author expresses deep gratitude to rediation of real photons. "In conclusion the author expresses deep gratitude to rediation of real photons. "In conclusion the author expresses deep gratitude to rediation of real photons." Orig. L. D. Solov'yev for the subject proposed for study, and useful discussions." Orig. art. has: 17 formulas. ASSOCIATION: Matematicheskiy institut imeni V. A. Steklova, Akademii nauk Solohathematics Instituts, Academy of Sciences SSSR) (Hathematics Instituts, Academy of Sciences SSSR) SUBMITTED: 17Aug64 ENCL: 00 SUB CODE: EM, OP OTHER: 003	T
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YUSHINA, A. 3.

Theory, design and computation of locomobiles. Moskva, Gos. nauchno-tekhn izd-vo mashinostroit. lit-ry, 1952. 602 p. (53-19523)

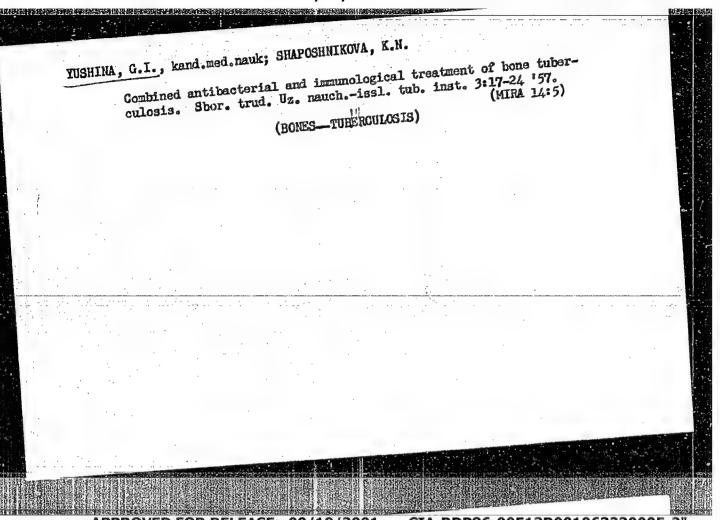
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YUSHINA, G. I.

YUSHINA, G. I. -- "Materials on the Early Detection of Osteous Tuberculosis in Children." Tashkent State Med Inst imeni V. M. Molotov, Tashkent, 1955. (Dissertations for the Degree of Candidate of Medical Sciences)

SO: Knizhnaya Letopis', No. 39, 24 Sept 55

TUSHINA, G.I. Barly diagnosis of ostocarticular tuberculosis in children. Probl. tub. no.1:3-6 Jar? '55. 1. Ir Usbekskogo tuberkuleznogo instituta (dir. prof. Sh.A.Alinov) (TURRECULOSIS, OSTEOARTICULAR, in infant and child, diag., early)

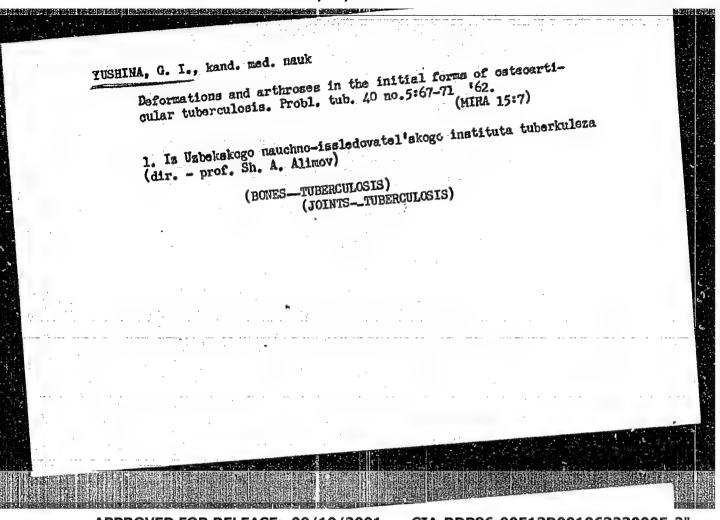


YUSHINA, G.I., kand.med.nauk; AGZAMOV, R.A., kand.med.nauk; SHCHITOVA, N.H.,

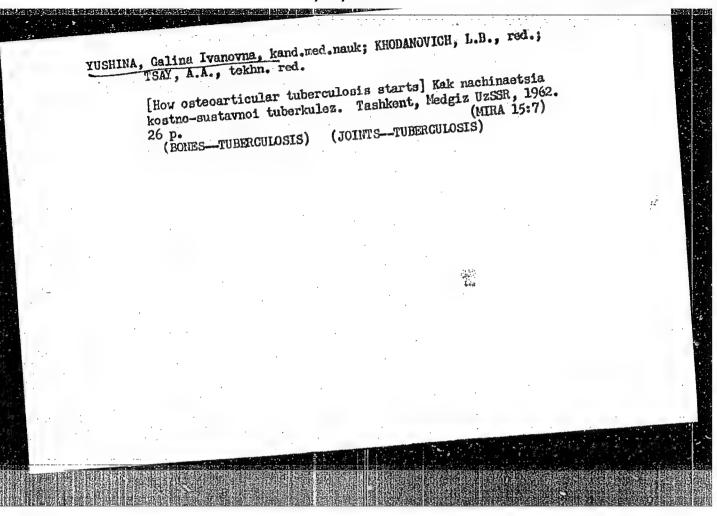
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Clinical, roentgenological, and morphological aspects of gonitis
tuberculosa. Med. zhur. Uzb. no.12:17-25 D '61. (MRA 15:2)
tuberculosa. Med. zhur. Uzb. no.12:17-25 D '61. (MRA 15:2)

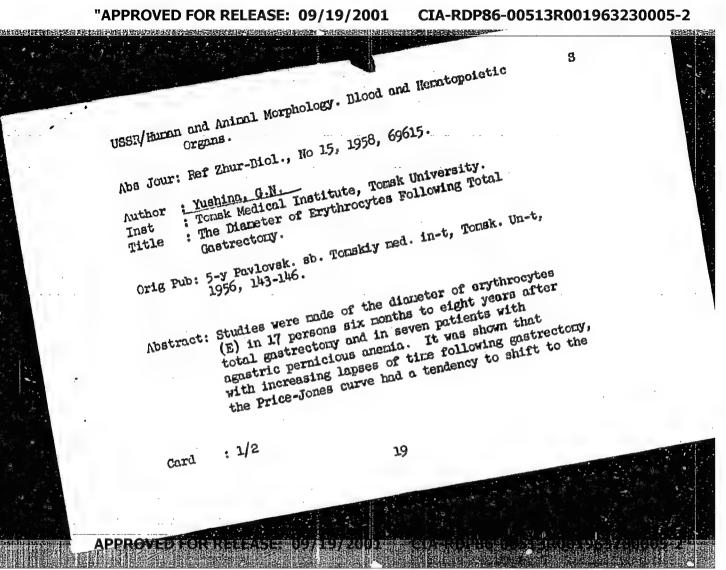
1. Iz Uzbekskogo nauchno-issladovatel'skogo instituta tuberkuleza
(direktor - prof. Sh.A.Alimov) i Respublikanskogo detskogo kostnotuberkuleznogo sanatoriya imeni N.K.Krupskoy (glavnyy vrach Kh.I. Yusupova). (KNEE_TUBERCULOSIS)



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8

USSR/Human and Animal Morphology. Blood and Hematopoietic Organs.

Abs Jour: Ref Zhur-Biol., No 15, 1958, 69615.

right. Within two years the average diameter of E reached 7.92-8.45 microns, and the total percentage of macrocytes increased to 42-74. By four to six years the diameter of E stabilized at 8.5 microns, and there was a shift of the curve to the microns, and there was a shift of the curve to the right to 11.2-12 microns. With measuring permicious anemia, the average red call diameter was 8.67 - 9.47 microns, the shift of the curve to the right was to microns, and the percentage of macrocytes 13.3 microns, and the percentage of macrocytes was 70.93.

card : 2/2

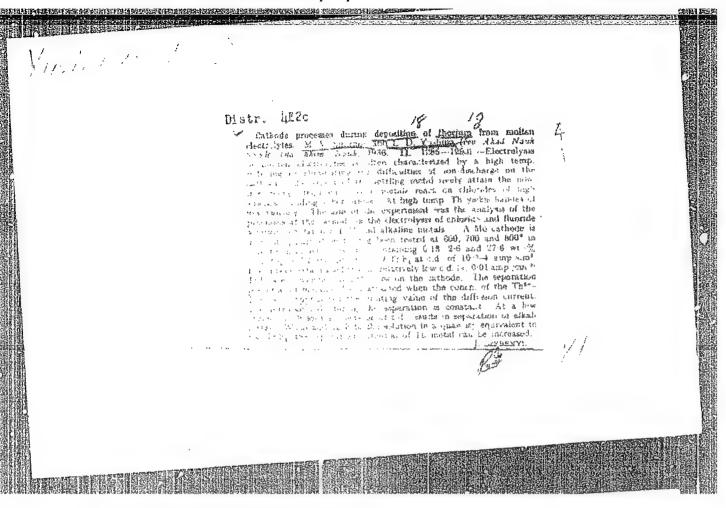
YUSHINA, G.N.

Effect of arterial hypoxemia in pulmonary emphysema on capillary (MIEA 15:1) permeability. Terap.arkh. 33 no.10:103-105 61.

1. Iz kefedry propedevtiki vnutrennikh bolezney (zav. - prof. B.M. Shershevskiy) Tomskogo meditsinskogo institute.

(EMPHYSEMA, PULMONARY) (ANOXEMIA)

(CAPILLARIES — PERMEABILITY)



 YUSHINA, L.D., Cand them Sci-(diss) "Cathode precidential and anode diffusion of metallic thorium in salt fusions." Spendlovsk, 1956 (cover 1958), 12 pp (Acad Sci USSR. Ural Affiliato. Inst of Chemistry), 100 copies (KL, 22-58, 103)

-32

Jushina, L. D

* BROHTUA

Yushina, L. D., Sairaov, K.

TITLE:

The Anodic Solution of Thorium in Salt Welts (Anodnoye rastvoreniye toriya v solevykh rasplavakh)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 115, Nr 5, pp. 949-952

ABSTRACT:

There are no technical data available in publications dealing with the study of the anodic dissolution of metals in both theoretically and practically interesting salt melts. The present paper deals with the solution of thorium chlorides of alonling metals. After describing the special experimental cell (fig. 1), the test conditions are described. The thorium anode was measured within, the wide range of current density anous was measured withing one with range of carron 2.10-3 to 8 A/cm at a potential of -2,550 / 710 and of -2.524 / 8150. With a prescribed amperage 3 to 4 seconds were sufficient to produce a steady potential. Polarization measurements wer begun when the thorium electrode had shown a constant potential in the molten equimolar initial mixture of both the sodium and potassium chloride. The values of the potentials are given above. The results are represented in

-per charge cur-.... the alkali metal. The difum lons begins to react on anode polari-

20-5-27/54

The Anodic Solution of Thorium in Salt Melts

zation as soon as the current density exceeds 0.05 A/cm^2 , and when the reaction of displacement and reduction of the alkali ions is suppressed by metallic thorium. It can be presumed that the thorium converting into the electrolyte diffuses in the space of the melt, viz. chiefly in form of binary ions. This assumption is supported by a fine suspension for metallic thorium which is formed in the electrolyte, provided that the oxygen contained in the air has been kept away. Analogous equations are derived for the anodic current density and 9 The polarization curves are displaced in the case of increased temperature in the direction of more positive potentials. Beyond 1 A/cm² the anode potential rises much more quickly with the current density at 710 (and beyond 1,5 A/cm² at 815°C) than it should be the case with the equation derived in this respect. Yet, the test shows in fact that the presumption of an invariable thickness of the diffusion layer d only proves true in the case of relatively low concentrations. The thickness of the diffusion layer in the range of higher concentrations apparently ceases to be a constant quantity and it begins to grow rapidly in case of increasing current density. This leads subsequently to a decline of the velocity of dif-

Card 3/5

The Anodic Solution of Thorium in Salt Melts

20-5-27/54

fusion, i.e. to an increased concentration of the thorium ions in the electrolyte layer close to the electrodes and to a corresponding increase of the anode potential. As soon as the concentration of thorium chloride approaches 100 % in the electrolyte layer near the anode, the anode potential reaches a value which is near the potential of equilibrium of thorium in its own chloride (-2,204 at 710 and -1,089 at 815). Thus only Th2+ ions practically rass over into the electrolyte, even at relatively high current densities. In this case a polarization of concentration is observed. The situation changes in the case of the electrolysis of molten thorium tetrachloride which, on the whole, shows anodic conductivity. In this case the reaction of reduction is suppressed already at low anodic current densities. The dissolution of the metal takes place without a substantial polarization. This phenomenon was exploited by the authors in a previous work for the determination of the decomposition tension of molten thorium tetrachloride. There are 2 figures and 3 Slavic references.

Card 4/5

Ural affil, AS USSE

SMIRROV, M.V.; IVARDYSKIY, L.Ye.; YUSHINA, L.D.

Equilibrium potentials of metals in solten salts.

Trudy Inst. khim. UFAN SSSR no.2:153-159 '58.

(Electrometallurgy)

(Electrometallurgy)

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67024

sov/137-59-10-21896

Referativnyy zhurnal, Metallurgiya, 1959, Nr 10, p 92 (USSR) 5.1310(A)

Translation from: Smirnov, M.V., Yushina, L.D., Ivanovskiy, L.Ye.

Deposition of High-Melting Metals From Molten Electrolytes AUTHORS:

Tr. in-ta khimii, Ural'skiy fil. AS USSR, 1958, Nr 2, pp 161 - 170 TITLE:

The authors investigated processes which take place on a Me-cathode in PERIODICAL: electrolysis of chloride and chloride-fluoride smelts, containing Th,2 ABSTRACT:

Bejl Zr, TI and other metals. It is shown that electrolysis of molten metallic salts is accompanied with an overcharge on the cathode of ions of conventional to lowest valencies. This is the cause for the existence of residual currents, which entail reduced cathode yield per current in electrolyzers without diaphragms or in open baths. In closed electrolyzers with diaphragms the yield per current increases. The structure of the cathode deposit (dimension and cohesion of particles) depends on the presence of suspended submicroscopic particles of oxycompounds in the

electrolyte. During the formation of crystalline deposits true D_k increases, with higher current intensity of electrolysis, considerably

slower than the rated value, calculated from the geometrical surface of Card 1/2

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67024

Deposition of High-Melting Metals From Molten Electrolytes

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the initial cathode. When the limiting diffusion current of ion discharge of the metal obtained from mixed electrolytes is attained, the cathode potential increases rapidly up to a magnitude where the joint separation of alkali metals begins. The yield per current decreases sharply during the joint deposition of alkali metals.

G.S.

Card 2/2

67627

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sov/81-59-14-50262

Translation from: Referativnyy zhurnal, Khimiya, 1959, Nr 14, p 322 (USSR)

AUTHORS:

Smirnov, M.V., Chukreyev, N.Ya., Yushina, L.D.

TITLE:

The Anode Dissolution and Self-Dissolution (Corrosion) of Beryllium

and Thorium in Molten Chlorides of Alkali Metals

PERIODICAL:

Tr. in-ta khimii Ural'skiy fil. AS USSR, 1958, Nr 2, pp 171 - 176

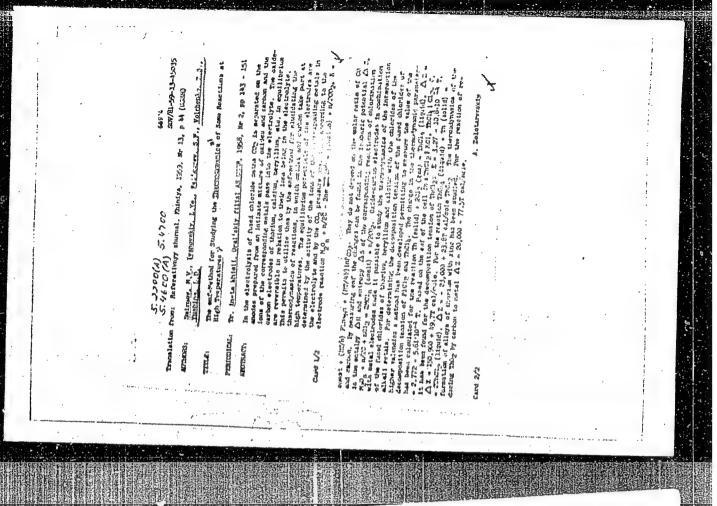
ABSTRACT:

The behavior of Be and Th in smelts has been studied. The anode dissolution of metals is accompanied by a high concentration polarization. Be passes into the smelt mainly in the form Be+ and partially in the form Be+ [sic!]. This dissolved mainly in the form of the subion Th+, which intensifies the destructive action of the smelt on the lining. $D_a \leq 0.1$ a/cm², or the admixtures pass into the smelt. The corrosion of Th, Be, Zr and Ti has an electrochemical nature and proceeds with the

formation of subions of alkali metals.

K. Krivolutskiy

Card 1/1



YUSHINA, L.D.

79-1-60/63

AUTHOR:

Yushina, L. D.

TITLE:

The Electrolytic Reduction of Thorium Tetrachloride in Salt Melts (Elektroliticheskoye vosstanovleniye tetrakhlerida toriya'v solevykh rasplavakh)

PERIODICAL: Zhurnal Obshchey Khimii, 1958, Vol. 28, Nr 1, pp.272-276(USSR)

ABSTRACT:

Until recently it was assumed that only tetravalent thorium compounds exist. In order to find a regular connection with the periodic system of elements, thorium compounds with lower valences were sought. Beside the synthesis from elements syntheses of the metal with tetrahalides (references 1 - 3) were also described in the publications of recent years. The low compounds of thorium are extremely reactive and also are strong reducing agents. They decompose the glass walls under formation of compounds of the type ThOX, react with water under formation of Th4+ and on that occasion develop hydrogen. In a preceding paper on cathode processes in the electrolysis of chloride melts containing Th4+-ions it was found that the low thorium chlorides are intermediate products in

Card 1/3

APPROVED FOR RELEASE: 09/19/2001

79-1-60/63

The Electrolytic Reduction of Thorium Tetrachloride in Salt Melts

the electrolytic metal-production. The elimination of thorium in the electrolysis does not take place at once, but only after a certain "critical" quantity of the cathode current density had been attained. At a current density below this maximum limit only a jumping over of the ion charge from Th4+ to Th2+ and Th2 takes place. Thus low thorium chlorides can be obtained electrolytically with low current densities from salt melts in an electrochemical way. It was of interest to find out under which conditions the electrochemical reduction of thorium in salt melts takes pice and it was also important to investigate the properties of an electrolyte which disposes of a large quantity of low-valent thorium ions. Which disposes of a large quantity of low-valent thorium ions. Melts with Th2+ and Th3-ions are strong reducing agents. The authors investigated the electrolytic reduction of thorium tetrachloride at 700°C in melts of the chlorides of alkaline metals containing 16,1 % ThCl4. It was found that the low--valent thorium does not only energetically act upon silicate products such as quartz, glass, porcelain, etc., but also upon metals (Pt and Ta) under the formation of it alloys. There are 2 figures, and 5 references, 2 of which are Slavic.

Card 2/3

APPROVED FOR RELEASE: 09/19/2001

CARRIENT TRANSPORTATION OF THE

The Electrolytic Reduction of Thorium Tetrachloride in Salt Melts

ASSOCIATION: Ural Branch AN USSR

(Ural'skiy filial Akademii nauk SSSR)

SUBMITTED: December 27, 1956

AVAILABLE: Library of Congress

Card 3/3

1. Chemistry 2. Thorium compounds-Electrolysis

Sqreshchaniye po elektrokhini, 4th, Moseam, 1956. Tract; [abornik] (Transactions of the Fourth Conference on Elect Froctenistry; Collection of Articles) Muston, 1956. 1952. 868 p. Errata aligh inserted, 2,500 copies printed, 1952. Sponsoring Agency: Akademiya mauk SSSM, Orgaleniye khimicheakith Bratus, 18 Enders, 18 Enders Enders, 18 Enders Enders, 18 Enders Enders, 18 Enders End	TOTATOME: This book is intended for chemical and electrical engineers. Programmers by hydricities metallurgists and restarthers interested in versions assects of electrochemistry. The book contains 170 the 13d reports presented at the book contains 170 the 13d reports presented at the book contains 170 the 13d reports presented at the book contains 170 the 13d reports presented by the Department of Chamical Chamistry. The collection persing the Department of Chamical Chamistry, formation of electrochemical kinesites. Comize layer theories and programs. Abridged discussions are givers at the end of each district partment in an inclusive length processes in the program of included there have been prolified in perforded illerature. No paragraphics are sentioned. Paragrammers are given at the end of most of the articles.	Trainer; Tillial M. SSSR-Upal Trainer; Tillial M. SSSR-Upal Trainer; Tillial M. SSSR-Upal As (Gomidaretvenny rauchno- Softycz sostilow-Sate Scientific Softycz sostilow-Sate Scientific Softycz sostilow-Sate Scientific Softycz sostilow-Sate Scientific Indorganichasty, Atlania AN Torganic Chanisty, Academy B for a Polarographic Wave at see	institut Europyakav-Avistion Ensti- Frobless of the Polsrography of Pued 398 Gayfets (Gosudarstvannyy institut	nikeleroy promyahlenmesti- of Enterprises of the Voltage and Properties of 362 sy ibuting authors] 365	Of the Bulgarian Accessy of Sciences), Overwoltage During the Electrocrystallization Silvand B.E. Conver [U.S.k.), Determine a Solid Electrocrys and Thase Is During the Electrocrepacition of Upper 380 tomogeneity of an Electrode Surface and	Gorbunos (Institute of Patala) enes, USSA). Some Theoretical and
### STATE TO STREET THE FEASE I BOOK EXPLOSIVE CONTROL OF STREET	TEXTOR: This book is interest and all the corrections associated as deal control of a local control of a loc	Parach, Academy of Sciences, the Erecipitation of Thorium Parachi, Academy of Sciences, the Frecipitation of Thorium Palatocons of Thorium Palatocons of Thorium Palatocons of Thorium to Palatocons of Science of Onlergo Raduction of Galema From Supplements of Marketine of Marchine Constitution of Calema From Supplements of Caleman In Constitution of Caleman and Onlergo Sciences, UKSSI, Equation Of Sciences, UKSSI, Education Of Sciences, UKSSI,	Tarburd, N. 4. (Aviatalonny) tute, Kubyahev), Some Electrolytes Tarburd, S. Ye., and V.L.	Specyakticovanju prodprivatly State Satistice for the Standing States Industry). Decomposition State Used in Nonferrous Scialiur Discussion (V.P. Mashovets and contr	Editary, R	The Mechanism of the Electrodeposition of Metals Withdow (Instinute of Charlety, Academy of Sciences, USR), Some The

5(4) AUTHORS:	Smirnov, M. V., Yushina, L. D. SOV/62-59-2-10/6	'n
'TITLE:	Equilibrium Potentials of Metals in Molten Electrolytes (Ravnovesnyye potentsialy metallov v rasplavlennykh elektrolitakh) Communication 1. Equilibrium Potentials of Thorium in Chloride Melts (Soobshcheniye 1. Ravnovesnyye potentsialy toriya v khloridnykh rasplavakh)	
PERIODICAL:	Izvestiya Akademii nauk SSSR. Otdeleniye khimicheskikh nau 1959, Nr 2, pp 251-258 (USSR)	uk,
ABSTRACT:	In the present paper the authors present the determination results of equilibrium potentials of thorium in equimolar mixture of sodium- and potassium chlorides both with and without thorium-chloride addition. The equilibrium poten	tial
	of thorium in chloride melts which contained in the initiation of the state 0.14 up to 78% ThCl was measured in the temperature	al
	range of 680 - 825° (Fig 2). In order to determine the confidence of the electromotive force with the varying concentration of ThCl ₂ in the melt, isothermal lines were drawn (Fig 3)	
	The molten mixtures of sodium- and potassium chloride wit thorium dichloride behave in all concentrations of ThCl ₂	h lika
Card 1/3	thorium didnioride behave in all concentrations of 22	TIKO

Equilibrium Potentials of Metals in Molten Electrolytes. Communication 1. Equilibrium Potentials of Thorium in Chloride Melts

SOV/62-59-2-10/40

ideal solutions. A dependence of the equilibrium potential of thorium on temperature and concentration was found. According to experimental data the oxidation-reduction potential of thorium in chloride melts as well as the equilibrium constant of the reaction was calculated:

 $Th^{4+}(melt) + Th \longrightarrow 2Th^{2+} (melt).$

In the temperature range of 680 - 825° the equilibrium constant varies from 51.1 up to 0.91. According to the temperature dependence of the electromotive force of galvanic elements with the melt containing thorium dichloride the quantities of the decomposition voltage of the molten ThCl₂ and the variation of the isobaric potential for the following reac-

variation of the isobaric potential for the following reactions were calculated:

Th(solid) + Cl₂(gaseous) = ThCl₂(liquid

and ThCl₄(liquid) + Th(solid) = 2ThCl₂(liquid)

The stationary potential of thorium in the equimolar mixture KCl + NaCl at $700 - 842^{\circ}$ was determined (Fig 4). There are

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Equilibrium Potentials of Metals in Molten SOV/62-59-2-10// Electrolytes. Communication 1. Equilibrium Potentials of Thorium in Chloride Melts

4 figures and 12 references, 9 of which are Soviet.

ASSCCIATION: Ural'skiy filial Akademii nauk SSSR (Ural Branch of the

Academy of Sciences, USSR)

SUBMITTED: March 18, 1957

Card 3/3

68172

5(4) 5,4600

SOV/20-129-6-39/69

TITLE:

An Electrochemical Chain With a Solid Electrolyte

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 129, Nr 6, pp 1339-1342

(USSR)

ABSTRACT:

The authors investigated the temperature dependence of the electromotive force of the chain Ag/AgBr solii/Br,C in the region 25-421°. The electrochemical cell consisted of pressed silver bromide, to the one end of which a silver wire and to the other a carbon rod is attached. The entire cell was in a bromine atmosphere. Figure 1 gives the measured amf of the cell in dependence on temperature. The values between 110 and 421 lie on a straight line, for which an empirical equation is set up. Extrapolation to the melting point 434° of the AgBr gives an emf of 0.8033 v, which is in good agreement with the values given in reference 5 for liquid AgBr (0.8056 v), confirms the correctness of measurements, and points out that in solid AgBr electric conductivity near melting point has ionic character. The occurrence of electron conductivity in a bromine atmosphere is proven by the fact that the ion transfer number

APPROVED FOR RELEASE: 09/19/2001

68172

An Electrochemical Chain With a Solid Electrolyte SOV/20-129-6-39/69

> for Ag at 20° was between 0.03 and 0.05, and at 93° between 0.06 and 0.11, whereas that for Br was zero. On the basis of the thermodynamics of irreversible processes the concentration gradient of Br dissolved in solid AgBr and, thus, the gradient of the holes was calculated and the transfer number of the holes was found to be zero for the temperature interval of from 100 to 434°. The authors thank Academician A. N. Frumkin for the evaluation of their work. There are 1 figure and 8 references, 1 of which is Soviet.

ASSOCIATION: Institut elektrokhimii Ural'skogo filiala Akademii nauk SSSR (Institute of Electrochemistry of the Ural Branch of the Academy of Sciences, USSR)

PRESENTED:

July 16, 1959, by A. N. Frumkin, Academician

SUBMITTED:

July 15, 1959

Card 2/2

PAL'GUYEV, S.F.; KARPACHEV, S.V.; YUSHINA, L.D.

Problem of measuring the decomposition voltage of solid electrolyte solutions. Trudy Inst, elektrokhim. UFAN SSSR no.1:105-110 '60. (MIRA 15:2)

(Solutions, Solid) (Electromotive force)

8/081/62/000/018/019/059 B226/B186

AUTHORS: Smirnov, M. V., Yushina, L. D., Loginov, N. A.

TITLE: The corrovion of titanium in saline melts

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 18, 1962, 305, abstract 181152 (Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR, no.2, 1961, 135 - 143)

TEXT: The corrosion rate of Ti in saline melts of different compositions is studied as a function of the temperature, atmosphere and purity of the metal. Anode polarization curves of Ti are plotted for various corrosion rate conditions. The electrochemical nature of the corrosion of metallic Ti in molten saline media is established. [Abstractor's note: Complete translation.]

Card 1/1

8/137/62/000/008/015/065 A006/A101

AUTHORS:

Pal'guyev, S. F., Yushina, L. D., Ovchinnikov, Yu. M.

TITLE:

Investigating oxide sintering by the electric-conductivity method

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 8, 1962, 45, abstract 80309 ("Tr. In-ta elektrokhimii. Ural'skiy fil. AN SSSR", 1961, no. 2,

193 - 197)

The authors studied sintering of CeO2 with admixtures of BeO (5 mol.%) MgO (10 mol. %), CaO (15 mol. %) and SrO (9 mol. %). Changes in the electric resistivity were determined as functions of the composition, time of holding, and sintering temperature. "Electric resistivity versus sintering time" curves were plotted. The electric resistivity of the specimens (solid solutions) increases in the sintering process. The end of sintering was fixed when constant electric resistivity was established. Specimens of 20 mm in diameter, 12 - 15 mm high, were pressed from a thoroughly crushed oxide mixture (roasted at 1,200°C) at 1,000 kg/cm² pressure. To measure electric resistivity Pt-wires were pressed into the specimens; their ends were connected with an a-c bridge. Sintering was con-

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Investigating oxide sintering by...

S/137/62/000/008/015/065 A006/A101

ducted in a Silit furnace at 1,200, 1,350, 1,450 and 1,550°C for 1 - 15 hours. Linear shrinkage values of the specimens are in agreement with changes in the electric resistivity. It was established that at 1,200 - 1,350°C CeO₂ + SrO mixtures are most rapidly sintered, and CeO₂ + BeO mixtures at 1,450 - 1,550°C. The relative sintering rate of mixtures with additions of CaO and MgO is approximately the same at all temperatures investigated. It is shown that the measurement of electric resistivity can be used as a sensitive method for investigating sintering of oxide ceramic specimens. Hypotheses to explain the mechanism of the (diffusion)

I. Brokhin

[Abstracter's note: Complete translation]

Card 2/2

 24,7700

S/631/61/000/002/012/0i3

1003/1203

AUTHORS:

Pal'guyev, S. F., Yushina, L. D., and Ovchinnikov, Yu. M.

TITLE:

Investigation of the sintering of oxides by the electric conductivity method

SOURCE:

Akademiya nauk SSSR, Ural'skiy filial, Institut elektrokhimii. Trudy, no. 2, 1961.

Elektrokhimiya rasplavlennykh solevykh i tverdykh elektrolitov. 193-197

TEXT: A method for measuring the electric conductivity to determine the temperature at which the process of sintering commences if a liquid phase is formed was successfully used by Soviet scientists, and it was interesting to find out whether this method is applicable to the investigation of sintering of oxides when there is no liquid phase. Samples of mixtures of cerium dioxide with 5 mole % BeO, 10 mole % MgO, 15 mole % CaO, or 9 mole % SrO were investigated. After the completion of the sintering process the electric resistance of all the oxide mixtures investigated reaches a constant value. This is a sensitive method for the investigation of sintering processes. There are 5 figures.

B

Card 1/I

89573

S/076/61/035/002/007/015 B124/B201

26.2520 AUTHORS:

Yushina, L. D., Pal'guyev, S. F., and Karpachev, S. V.

TITLE

Study of electrochemical cells with solid electrolytes.

I. Temperature dependence of the electromotive force of the cell Ag | AgBr(s) | Br₂, C

PERIODICAL: Zhurnal fizicheskoy khimii, v. 35, no. 2, 1961, 342 - 349

TEXT: In the course of the work under consideration the authors measured the emf of the cell mentioned in the title in the range from room temperature to 421°C. The best results were obtained with a U-shaped glass tube, into whose one bend, which served as the cell proper, gaseous browine was introduced and drawn off on the electrolyte surface. The contact with the bromine electrode in the tube was brought about by a soldered platinum wire. The bromine electrode used was a rodlet of spectrally pure carbon and the electrolyte a cylinder pressed from AgBr. The emf of the cell was measured with a high-resistance potentiometer of the type

NNTB-1 (PPTV-1), equipped with an M-91/A (M-91/A) galvanometer as a zero

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69573 \$/076/61/035/002/007/015 B124/B201

Study of electrochemical cells ...

instrument. The measuring accuracy was + 0.1 mv at temperatures over 110°C, and about + 1.0 mv at lower temperatures. Measurement results at different temperatures are illustrated in Fig. 1. In the temperature range from 110 to 421°C the points established experimentally were upon a straight line, whose equation was derived empirically with the aid of the least squares method: E = (1.1518 - 0.493.10⁻³T) + 0.0017 v (1); at temperatures lower than 110°C the points established experimentally were not on a straight line. According to Ref. 7 (E. J. Salstrom, J. H. Hildebrand, J. Amer. Chem. Soc. 52, 4650, 1930), the emf of the cell with liquid AgBr amounts to 0.8056 v at 434°C, while the one according to Eq. (1) is 0.8033 v. By thermodynamic calculations made on the basis of data by A. F. Kapustinskiy (Ref. 8: "Termicheskiye konstanty neorganicheskikh veshchestv" (thermal constants of inorganic substances) M. - L., 1949) 0.9904 v was found for the emf at 25°C, while 1.0049 v was obtained from Eq. (1). These data prove that there exists practically no

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S/076/61/035/002/007/015 B124/B201

Study of electrochemical cells ...

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electron conductivity in AgBr in the temperature range from 420 to 100°C. To find out whether the electrical conductivity of solid AgBr was of an electronic nature, the authors measured the transfer numbers of the ions in solid AgBr in bromine (vapor pressure = 168 mm Hg) at room temperature and 95°C, the above described device being used for this purpose also. The electrolyte plates used were pressed by a special equipment between the carbon electrodes. The electrolysis current at 20°C was 0.5 to 1.2 me and at 95°C it was 1.0 to 5.0 ma. The dissolution of bromine in solid AgBr causes an electron conductivity to appear. The electron conductivity arising in solid AgBr in connection with the bromine dissolution is caused by the motion of positively charged holes in the electric field. Ag- and Br ions and positively charged holes were found in solid AgBr. The mean value of the hole-transfer number is calculated from equation

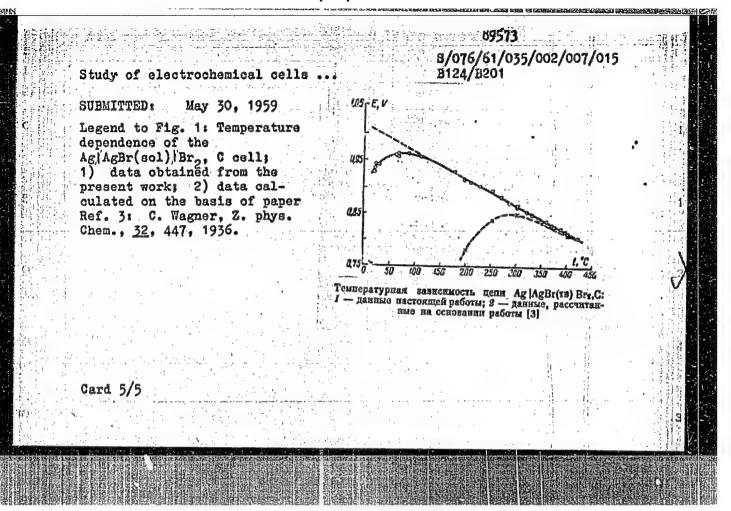
 $t_o = (\int\limits_{Br}^{Ag} t_o \ d\mu_{Br})/(\mu_{Br}^{Ag} - \mu_{Br}^{Br})$ (11) (where μ_{Br} denotes the potential of atomic bromine in bromine vapors around the Br=electrode, μ_{Br}^{Ag} and μ_{Br}^{Br} the chemical potential of atomic bromine, dissolved in the crystal around the

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S/076/61/035/002/007/015 B124/B201

Study of electrochemical cells ...

Ag- and Br-electrode, respectively; to is proportional to the concentration of atomic bromine dissolved in AgBr: $t_o = kc_{Br}$. The relation $t_o = \left[k(c_{Br}^{Br} - c_{Br}^{Ag})\right] / \left[\ln(c_{Br}^{Br}/c_{Br}^{Ag})\right]$. The relation $t_o \cdot t_o' / \ln(c_{Br}^{Br}/c_{Br}^{Ag})$ (12) is derived, where t_o' is the hole-transfer number in AgBr saturated with bromine at a bromine vapor pressure of 170 mm Hg, and cBr is the concentration of dissolved bromine in the immediate neighborhood of the Br elec-It may be stated in this connection that if the solid salt saturated with a metalloid practically exhibits only an electron conductivity, this will not become manifest at very low concentrations of dissolved solid metalloid salt near the metal electrode when measuring the emf; the same holds for dissolution in a solid metal salt. There are 1 figure and 10 references: 2 Soviet-bloc and 8 non-Sovietbloc. A reference to English language publications reads as follows: D. L. Hildebrand, W. R. Kramer, R. A. Mac Donale, D. R. Still, J. Amer. Chem. Soc., 80, 4129, 1958. ASSOCIATION: Institut elektrokhimii, Sverdlovsk (Institute of Electrochemistry, Sverdlovsk) Card 4/5

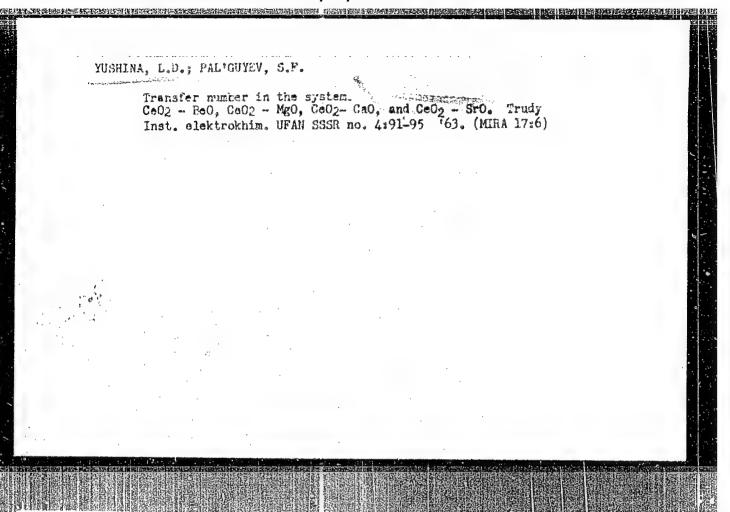


APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963230005-2"

PALICUYEV, S.F.; YUSHINA, L.D.

Transfer numbers in the solid oxides of beryllium, magnesium, and calcium, Trudy Inst. elektrokhim. UFAN SSSR no.3:149-154
162. (MIRA 16:6)

(Metallic oxides...Electric properties)
(Ions...Migration and velocity)



NEUYMIN, A.D.; YUSHINA, L.D.; OVCHINNIKOV, Yu.M.; PAL'GUYEV, S.F.

Nature of the conductance of solid solutions Bi203 - Sr0. Trudy Inst. elektrokhim. UFAN SSSR no. 4:111-115 '63. (MIRA 17:6)

L 3857.-65 EPF(c)/EPF(n)-2/EFP/EMF(j)/FMA(c / MT(1)/EMT(m)/EMO(m)/EMP(t)/P/EMF(t)/
EMPT(J)/EMF(t) Pr-4/Ps-4/Pu-h IJP(c) M/.D/JO/GS

ACCESSION NR. AT5607729 S/0000/63/000/000/0118/0134 /

AUTHOR: Pal'guyev, S. F.; Neuymin, A. D., Velchenkova, Z. S.; Yushina, L. I. P+1

TITLE: Electrical conductivity of highly re: ractory oxides at high temperatures

SOURCE: AN SSSY. Institut khimit silikatov. Silikaty i okisly v khimit visokikh temperature (Silicates and oxides in high-temperature chemistry). Moscow, 1:63,

118-134

TOPIJ FAGS. Tetal oxide, refractory oxide, oxide conductivity, high temperature conductivity, rare earth oxide

ABSTRACT: The electrical conductivity of pire oxides and their mixtures was investigated. The pure oxides were (a) the dioxides of zircontum; and (c) the implication of the electrical conductivity was determined and plotted on graphs. dependence of the electrical conductivity was determined and plotted on graphs.

dependence of the electrical conductivity was determined and plotted on graphs.

dependence of the electrical conductivity was determined and plotted on graphs.

CIA-RDP86-00513R001963230005-2 "APPROVED FOR RELEASE: 09/19/2001

dependence of the consisted of (a) Eyetens of oxide (2rO2-BeO, 2rO2-ReO, 2rO2-CeO, 2rO2-SrO, 2rO2-BeO), (b) systems based on thortime dioxide (2hO2-BeO, 1hO2-MgC, ThO2-CaO, ThO2-SrO, ThO2-BaO), (c) systems based on dioxide (2hO2-BeO, 1hO2-MgC, ThO2-CaO, ThO2-SrO, ThO2-BaO),

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ACCESSION NE: ATSO07729

cerium dioxide (CeO₂-BeO, CeO₂-MgO, CeO₂-CaO, CeO₂-SrO, CeO₂-BaO), and (d) the systems CeO₂-ZrO₂ and (0.75CeO₂·0.25ZrO₂)-CaO. In all these mixtures, the incherms of the electrical conductivity at 10000 were plotted. The experimental results lead the authors to the dunclusion that the electrical conductivity of solid oxides is sensitive to many of their other properties; weuch as the tendency :o react with one another and with the components of the gas phase and the tendency to be recured. The conductivity also depends on the nature of the phases present. Orig, art, his: 7 figures and 1 formula.

ASSOCIATION: None

SURHITTED: 0000063

ENCL: 00

SUB CODE: MT, IL, EM

NO REF SOV: 023

OTHER: 019

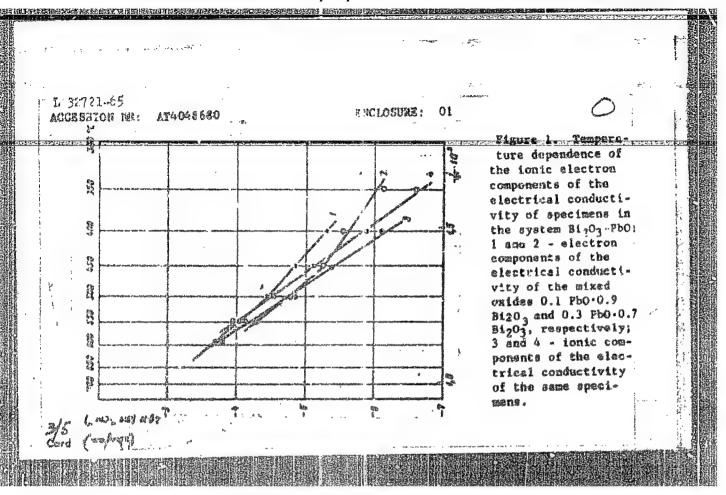
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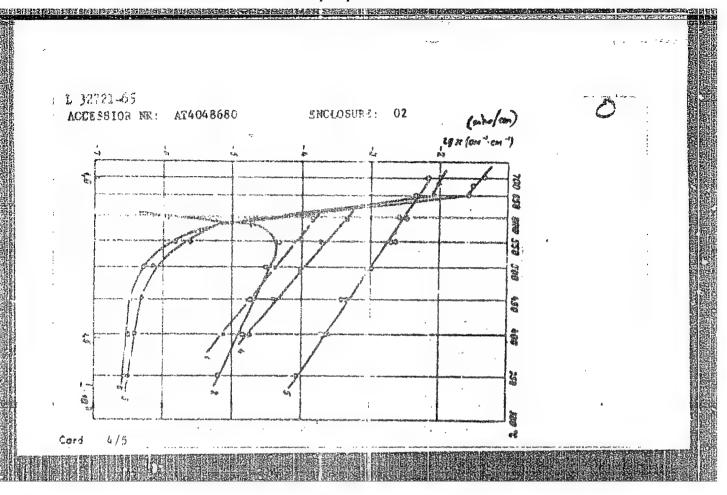
Card 2/2 - 2

EWG(j)/EWP(w)/EWT(m)/EPW(e)/ST(d)/EWP(t)/T/EPR/EWP(b) Pr-4/Ps-4 IJP(c) 3/2631/64/000/005/0153/0161 ACCESSION RR: AT4048660 AUTHOR: Yushins, L. D.: Pal'guyev, S. F. TIME: The nature of the electrical conductivity of mixed oxides in the bismuth onide - lead oxide and bissuth oxide - molyblenum oxide systems SOURCE: Ah SESR. Ural'skiy filial. Institut elektrokhimii, Trudy, no. 5, 1964. Elektrokhimiya raspiavlenny kh solavy kh i tverdy kh elektrolitov (Blectrochemistry of fused salt and solid electrolytes), 153-161 TOPIC TES: bismuth oxide, lead oxide, nelybdenum oxide, oxygen ion mobility, ijoaic conductivity, electron conductivity, metal oxide conductivity, electromotiva force method ABSTRACT: A study was made of the nature of the electrical conductivity of pure and wiged solld bismath, lead, and molybdenum oxides in relation to their composition and temperature. The electrical conductivity was measured by a method described in a previous paper (3. P. Pal'guyer and A. D. Neuymin, Trudy In-ta electrochimii UFAH SSSE, no. 2. Sverdlovsk, 183, 1938). The nature of the conductivity was studied by the electromotive force method. As thown by Figs. 1 and 2 of the En-1/5 Cere

L 32721-65 AT4048680 AUCESHION ML closure, the conductivity of both of these systems decreases sharply with decrease ing temperature. At temperatures of 500-5503, BigOz, PbO, and McOz have only a small proportion of ionic conductivity (on the order of 10%). As a result of the reformation of the structure, additions of PbO and MoO3 greatly reduce the "sectron conductivity of the Bi203, correspondingly increasing the proportion of ionic comductivity. On the basis of the data on the structure of the mixed oxides 0.1 Pb0.0.9 Bi203; C.3 Pb0.0.7 Bi203 and 3 Bi203.Mo03, it is assumed that the ionic component of the conductivity of these compounds is related to the mobility of the oxygen ions. Orig. art. has: 4 figures, 1 table and 2 formulas. ABBOCIATION: Institut elektrokhimii, Ural'akiy filimi AN SUGR (Electrochemistry branch, AM 858E) institute, Drai! SUE CODE: TC INCL: SUPPLIFIED: 00 no ask sov:

Cord 2/5



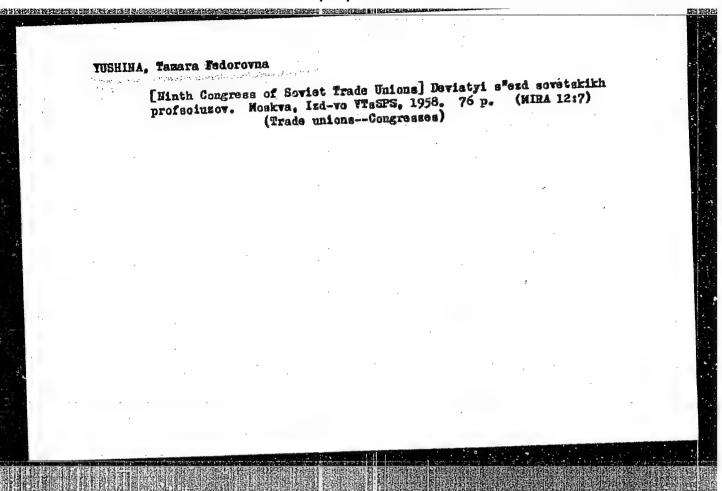


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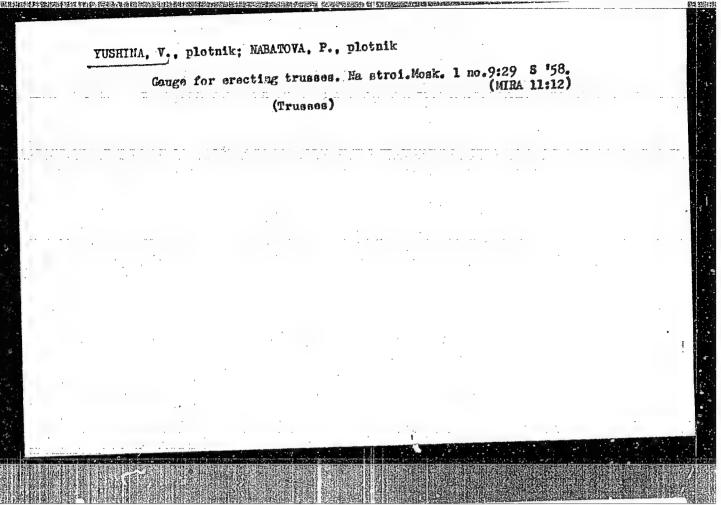
32721-69 CCESSION NR: AT4048680	enclosure: 03	0
lectrical conductivity of speci- lectron commondate of the slact - 0.1 MOG-0.9 HtpD-; 2 - 0.3	e of the acric and electron componence in the system $8i_20_3$ -MoO ₃ ; 1, 2 rical conductivity of the following $MoO_3 \cdot 0.7$ Bi_1O_3 ; 3 = 9.95 $MoO_3 \cdot 0.03$ e electrical conductivity of the sa	and 3 are the mixed exiden: Bloom; 4, 5 and
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ord 5/5		

YUSHINA, Lyudmila Vasil'yevna; ANDREYEVA, Ye.D., red.; AZOVKIN, N.G., tekhn. red.

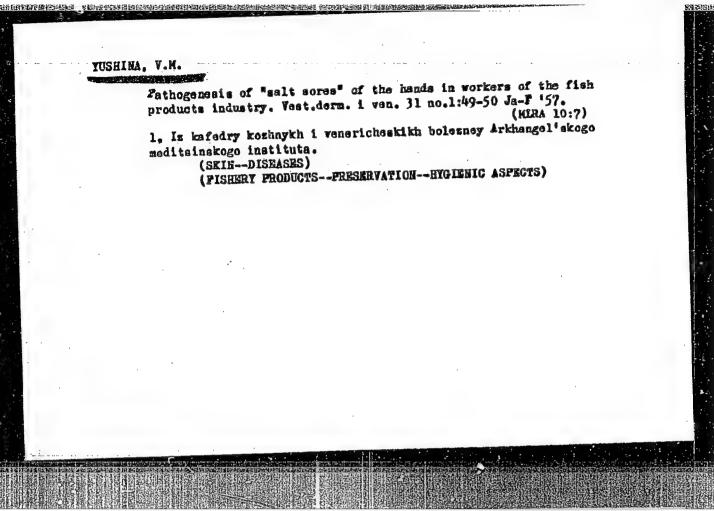
[Wage organization and payment on collective farms] Organizatsiia i oplata truda v kolkhozakh. Riazan', Riazanskee knizhnoe izd-vo, 1962. 23 p. (MIRA 16:12) (Collective farms--Income distribution)



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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963230005-2"



YUSHINA, V.V.; NIKOLAYEV, L.A.

Interaction of methylene blue with amines, Zhur, fiz.khim. 37 no.10: 2277-2281 0 '63. (MIRA 17:2)

1. Hoskovskiy institut inzhenerov transporta.

USHIMM, V. V.

AUTHOR:

Yushina, V. V.

76-10-28/34

TITLE:

The Catalytic Properties of Adsorbed Dyes. I.

(Kataliticheskiye svoystva adsorbirovannykh krasiteley.I.)

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 10,

pp. 2357-2360 (USSR)

ABSTRACT:

The investigation results of the catalytic action of methylene and thionine in the reaction of the oxidation of pyrogallol and methol by oxygen are given and the cases of their adsorption activation are described. It is shown that the methylene and the thionine act as catalysers in the oxydation of "methol" and pyrogallol in a narrow pH-interval. It is detected that the adsorption

of the dyes on a starch made to paste and on dextrin increases considerably the oxidizing agent activity of the dye. It is shown that the catalytic action of the dyes is not connected with the reduction of the activation energy. The importance of the activating action of the polysaccharides in the processes of the interexchange which is connected with the transfer of

CARD 1/2

The Catalytic Properties of Adsorbed Dyes. I. 76-10-28/34

hydrogen is pointed out. There are 4 figures, 1 table,

4 Slavio references.

ASSOCIATION: Institute for Railway Engineers. imeni I. V. Stalin,

Moscow (Institut inzhenerov zheleznodorozhnogo transporta

im, I. V. Stalina, Moskva).

SUBMITTED: November 12, 1956

AVAILABLE: Library of Congress

CARD 2/2

AUTHOR:

Yushina, V. V.

SOV 156 58-1-24/46

TITLE:

The Catalytic Properties of Dyes and the Models of the Biocatalysts (Kataliticheskiye svoystva krasiteley i modeli

biokatalizatorov)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 1, pp. 99 - 103 (USSR)

ABSTRACT:

The dyes reversibly transformable into leucoforms may be obviously used as model catalysts which imitate the functions of the active dehydrase group. This type of catalysis can be specified in most general form by the following scheme: $AH_2 + M = MH_2 + A; MH_2 + \frac{1}{2}O_2 = H_2O + M, AH_2 \text{ denotes the sub-}$

stance to be oxidized, A the oxidation product (dehydration product), M the dye, and MH, its leucoform. Systems of this type may be considered as models of active dehydrase groups. The effective mechanism of the dehydrases is based upon a reversible transition of the active groups into a hydrated state. A catalyst which consists of a reversibly oxidizable dye (which is fixed on a high molecular carrier - thus increasing the activity of the dye) may be considered as a more perfect

Card 1/4

The Catalytic Properties of Dyes and the Models of the 80V 156-58-1-24/46 Biocatalysts

dehydrase model than e.g. methylene blue or indigo carmine. The author investigated the influence of the adsorption on the catalytic activity of the two last mentioned dyes. In the present paper the characteristic features of an oxidation of hydrogen sulfide and p-phenylene diamine catalyzed by dyes are discussed. Table 1 shows that the reaction course is described by an equation of first order in the case of a decolorization of methylene blue in a H2S solution. Table 2 shows similar experiments with indigo carmine. The reaction kinetics is expressed not quite exactly by an equation of first order. The value of the velocity constant shows an obvious tendency to decrease. The author tried to detect the indications of a chemical interaction between the cellulose and indigo carmine, since the adsorption of the latter to cellulose increases the oxidation activity of HoS. The optical properties are changed here. They may be caused by the penetration of the dye molecules into the cavitations of the macromolecules. Furthermore protein-like carriers (casein, gelatin, and peptone) were tested. Casein activated the catalytic function of indigo carmine to a small, but

Card 2/4

The Catalytic Properties of Dyes and the Models of the SOV/156-58-1-24/46 Biocatalysts

> noticeable extent (Table 3). These experiments showed that protein-like carriers activate the oxidase function of indigo carmine to a much smaller extent than cellulose. Cellulose might be a specific activator for dyes of this type in consequence of its structure. It does, however, not influence the acceleration of the oxidation of the p-phenylene diamine. p-phenylene diamine itself activates in sclid state without doubt the oxidizing function of indigo carmine. There are 2 figures, 2 tables, and 4 references, 2 of which are Soviet.

ASSOCIATION: Kafedra khimii Vsesoyuznogo zaochnogo instituta inzhenerov transports (Chair of Chemistry of the All-Union Correspondence

Institute of RR Engineers)

SUBMITTED: October 4, 1957

Card 3/4

The Catalytic Properties of Dyes and the Models of the SOV/ -58-1-24/46 Biocatalysts

Card 4/4

SOV/69-21-2-4/22

5(

AUTHORS:

Vasil'yev, S.S. and Yushina, V.V.

TITLE:

The Stabilizing Effect of Silver Ions on Albumin (Stabilizi-

ruyushcheye deystviye ionov serebra na al'bumin)

PERIODICAL:

Kolloidnnyy zhurnal, 1959, Nr 2, pp.148-150 (USSR)

ABSTRACT:

This article deals with the effects of silver ions introduced into albumin solutions. After the adsorption of small quantities of silver, the stability of albumin solutions with regard to heating is increased. If larger quantities of silver are adsorbed, the ions produce a coagulating effect. Coagulation takes place, when 30 silver ions per albumin molecule have been adsorbed by the solution. There are 2 graphs and 3 references, 2 of which are German and 1

Soviet:

ASSOCIATION:

Tekhnologicheskiy institut legkoy promyshlennosti, Moskva

(Technological Institute of Light Industry, Moscow)

SUBMITTED:

December 12, 1957

Card 1/1

YUSHINA, Vera Vasil'yevna; NEKHIYUDOVA, A.S., rad.; RAKITIN, I.T., tekhn. red. [Carbon and silicon] Uglered i kremnii. Moskva, Izd-vo "Znanie,"
1961. 35 p. (Narodnyi universitet kul'tury. Fakul'tet estestvennonauchnyi, no.11)
(MIRA 14:10)

(Silicon) (Carbon)

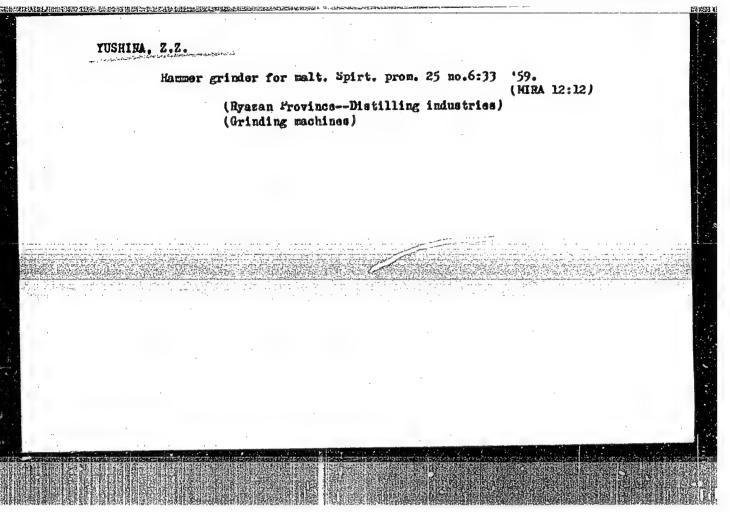
ANDREYEV, Sergey Vasil'yevich, doktor med. nauk, prof.; YUSHINA, Yu.G., red.; STAROSTENKOVA, M.M., red.izd-va; RAKITIN, I.T., tekhn. red.

[New data on the heart and blood vessels] Novoe o serdise i sosmiakh.

Moskva, Izd-vo "Znanie," 1961. 45 p. (Vsesoiuznoe obshchestvo po rasprostraneniiu politicheskikh i nauchrykh znanii. Ser.8, Biologiia i meditsina, no.19)

(MIRA 14:11)

(CARDIOVASCULAR SYSTEM-DISEASES)



YUSHKA, A.A.

Communal and everyday consumption of electric power and electrical loads of the cities of the Lithuanian S.S.R. Trudy LIEI no.51:121-129 '64.

(MIRA 18:11)

MOTSKUS, I. B. (Equinas); ALISHAUSKAS, A. V. (Equinas); YUSHKA, F. P. (Equinas)

Some aspects of the use of electronic computers for selecting the most economical constructional parameters. Zhur. vych. mat. 1 mat. fiz. 2 no.5:948-951 S-0 '62.

(MIRA 16:1)

(Programming(Electronic computers))

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963230005-2"

YUSHKA, F.P. [Juska, F.]

运行。1515万人,1311年1515万年的全国大学和1515年1515万年1515万年1515万人。 1515年1515年1515年1515年1515万年1515万年1515万年1515万年1515万年1515万年15

Evaluation of the effect of oscillations in the downstream level of hydroelectric power plants on the optimal distribution of active load in the power system. Trudy AN Lit. SSR. Ser. B no.3: 205-209 164. (MIRA 18:5)

1. Institut energetiki i eletrotekhniki AN Litovskoy SSR.

L 39663-66 EVT(1)/EVT(m)/ETG(f)/EVD(m)/EVP(t) IJP(c)000/65/000/05/000/05/01/0156

AUTHOR: Matulenis, A. Yu.; Vishchakas, Yu. K.; Yushka, G. V.; Gal'vidis, H. H.

ORG: none

TITLE: Unipolar longitudinal photoconductivity of electrographic selenium films

SOURCE: AN AzerbSSR. Institut fiziki. Selen, tellur i ikh primeneniye (Selenium, tellurium and their utilization). Baku, AN AzerbSSR, 1965, 149-156

TOPIC TAGS: selenium, semiconductor conductivity, drift mobility, temperature dependence, metal physics

ABSTRACT: Unipolar electrographic properties (higher initial potential or photosensitivity for charge of a single sign) of Se films were studied. The specific drift length (µr) was related to these properties by the relation:

$$Y = \Delta i_{+}/\Delta i_{-} = \mu_{b} \tau_{b}/\mu_{e} \tau_{e}$$

where $\Delta i_{m s}$ is the photocurrent at the illuminated anode, $\Delta i_{m s}$ is the photocurrent at

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L 39663-66 ACC NR: AT6001343

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the illuminated cathode of the same electrode, μ_{e} , μ_{h} are the mobilities of the electrons and vacancies, and τ τ_h are the respective lifetimes. A schematic of the apparatus used for measuring the relative photocurrents (?) is given. Amorphous and crystalline Se films of 0.8 to 1 mm thickness were used. This thickness was much greater than the drift length but much less than the reverse coefficient of saturation. For small voltages, I increased linearly with voltage for the amorphous Se, while at higher voltages it saturated rapidly. The specific drift lengths of the carriers were calculated to be 1.7.10 11 m2/v (electrons) and 2.10 10 m2/v (vacancies). The effects of crystallization (hexagonal modification) were studied by comparing the spectral distribution of I for both amorphous and hexagonal Se. The emorphous film had much higher values of I at the lower wavelengths (0.4 to 0.6 u) but went through a transition at 0.7 u and dropped below the hexagonal; the hexagonal had the opposite relationship: it rose with wavelength and saturated at 0.7 µ. A micrograph (1000x) is given of an initially amorphous film which was subjected to a temperature gradient (10°C on one face and 90°C on the other). The specimen was fractured at the interface of the amorphous-crystalline boundary. Further data are given for the dependence of the longitudinal photocurrent on the temperature of the vaporizing Se substrate. For temperatures below 85°C, the value of I increased sharply due to weaker vacancy injection. An explanation of the results based on

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ACC HR: AT6001343

special distribution of electron charge and vacancy injection is given. The best sensitivity and lowest dard current were obtained at substrate temperatures of 85°C. However, impurities in the Se lowered crystallization and interfered with getting these optimal conditions. Orig. art. has: 5 figures, 2 tables, 5 formulas.

SUB CODE: 11, 20/ SUBH DATE: 10Har65/ ORIG REF: 005/ OTH REF: 007

Card 3/3

PESENSON, A.Ye., inzh.; RYVKIN, A.L., inzh.; STEYKUNAS, R.I., inzh.; YUSHKA, R.I., inzh.

Special welding rectifier for the welding of thin-walled parts. Svar. proizv. no.2:32-34 F 165. (MIRA 18:3)

1. Vacabymenty tamohic-lealedovateliskly institut alektrosvarochenigo oborudovantya (for Fegenson, Ryvkin). 2. Vilinyusekiy filial Valsoyuznogo nauchno-issledovateliskogo instituta elektrosvarochnogo oborudovaniya (for Steykunas, Yushka).

YUSHKAN, N.I. inshener.

Obtaining curvilinear openings in die-cast machine parts. Lit.proizv. no.12:28-29 D *56. (MLRA 10:3)

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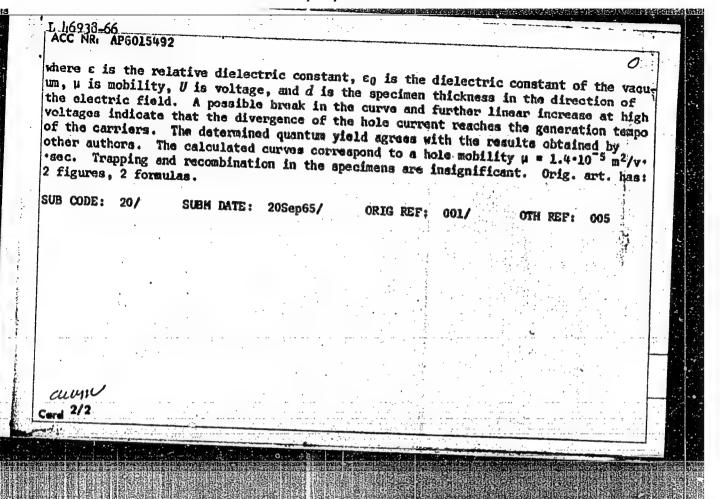
POLENOV, A.L.; YUSHKANTSEVA, S.T.

Morphology and topography of supplementary Comori-positive neurosecretory elements of the hypothalamic region in white mice. Dokl. IN SSSRI48 no.2:441-444 Ja *63. (MIRA 16:2)

1. Institut tsitologii AN SSSR i 1-y Leningradskiy meditsinskiy institut im. I.P. Pavleva. Predstavleno akademikom N.N. Anichkovym. (HYPOTHALAMUS)

ORG: Vil'ny	chakas, Yu. K.	rsity im. V. Ka	psukas (Vil'nyu	isskiy gosudara	CASTRANT WILLIAM	
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gabanca on		$j_0 = 1.21 \cdot \frac{9}{8} \epsilon \epsilon_0$	<u>U1</u>			

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"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963230005-2

YushKar, Ye.K.

AUTHOR:

Yushkar', Ye.K.

117-3-12/28

TITLE:

Cutting with Mineral-coramic Tipped Tools (Rebote resteami s mineralokeramicheskimi plastinkami)

PERIODICAL:

Mashinostroitel', 1958, # 3, p 28-29 (USSR)

ABSTRACT:

Cutters, tipped with mineral-ceramic plates "IM-332 produced by the Moscow Hard Alloy Combine (Moskovskiy kombinat tverdykh splavov) have been in use for several years at the Dmitrov Machine Tool Plant (Dmitrovskiy stankostroitel'nyy zavod) for cutting gears and similar work.

The article contains practical recommendations, based on experience, concerning the optimum facet angles and widths of the mineral-ceramic tip-plates, the optimum end relief angle and top radius, and the chip breaker. A single-point cutter with mechanically attached tip is described and illustrated.

There are 2 figures.

AVAILABLE:

Library of Congress

Card 1/1

AUTHOR:

Yushkar', Ye.K.

SOV-117-58-10-19/35

TITLE

Speed Threading of Blind Nuts (Skorostnoye narezaniye reziby

v glukhikh gaykakh) ·

PERIODICAL:

Mashinostroitel', 1958, Nr 10, pp 25-26 (USSR)

ABSTRACT:

Fast threading of blind nuts at 600 to 1,000 revolutions per minute is done by the 1A62 turning lathe, the mandrel of which revolves irreversibly in a backward direction. Threading goes lefthanded from bottom to top with insertion and release of the nut of the lead screw. At 100 rev/min of the lead screw, the nut is not always properly connected. Therefore a thread indicator (Photo 1) has been designed which can be easily attached to the lathe. It is used in connection

with a special chuck (Figure 2). There is 1 photo and 1 diagram.

1. Screw threads-Production

Card 1/1

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DANILOV, L.: YUSHKEVICH, A.

Repair of electric propulsion engines in repair shops on ships. Mor.flot 21 no.5:18-20 My '61. (MIRA 14.5)

这种中语言就由现代的研究是一种证实中特别的公式,但对于内容的对抗的数据的对象的的对抗的现在分词。如此,他们的经验地面对现在的现在分词,那种<mark>是一种的现在分词,是是</mark>

1. Starshiy inzh.-mekhanik mekhaniko-sudovoy sluzhby Murmanskogo articheskogo parokhodatva (for Danilov). 2. Nachal'nik elektrogruppy mekhaniko-sudovoy sluzhby Murmanskogo arkticheskogo mogskogo parokhodatva (for Yushkevich).

(Ship propulsion, Electric)
(Marine diesel engines—Maintanance and repair)

Yuškevič, A. A. On limit theorems connected with the concept of entropy of Markov chains. Uspehi Matem. Nauk (N.S.) 8, no. 5(57), 177-180 (1953). (Russian) Let x_1, x_2, \cdots be the random variables of a stationary Markov chain with finitely many states, and transition matrix $[p_{ij}]$. It is supposed that there is positive probability of going from any state to any other state. The author then proves two results used in information theory. He does not observe that the results can be based on direct applications of the law of large numbers and central limit theorem to sums of the form $\sum |p_{ij}|_{i=1}$. J. L. Doob (Urbana, III.).

10-28-54 LL

DYNKIN, Ye.B. (Moskva); TUSHKEVICH, A.A. [Jushkevich, A.].

Strong Markov processes [with summary in English]. Teor. veroiat.i ee prim. no.1:149-155 '56. (MERA 9:12)

(Probabilities)

YUSHKEVICH, A. A., Cand Phys-Math Sci -- (diss) "On Strictly Markov Processes." Mos, 1957. 7 pp (Mos State Univ im M. V. Lomonosov, Mechanomathematical Faculty), 100 copies (KL, 48-57, 104)

- / -

 YUSHKEVICH, A. A.

SOV/52-2-4-7/7

A Summary of Papers Presented at the Sessions of the Scientific Research Seminar on the Theory of Probabilities. Moscow, Feb-May 1957 Teoriya Veroyatnostey i yeye Primeneniya, 1957, v. 2, No. 4, pp. 478-88 and x = 1. If this condition is not fulfilled, then there is a unique solution of Eq.1 taking given values at t = 0 and x = 1. Yaglom, A.M., Generalized locally homogeneous stochastic fields. The contents of this paper have been published in Vol.2, Nr.3 of this journal. Seregin, L.V., Continuity conditions with unit probability of strictly Markov processes. The results are to be published in this Yushkevich, A.A., Strong Markov processes. The results were published in Vol.2, Nr.2 of this journal. Tikhomirov, V., On & -entropy for certain classes of analytic functions. The contents of this report have been published in Doklady Akademii Nauk, Vol.117, Nr.2, 1957, Urbanik, K., (Wroslaw), Generalised distributions p.191. at a point of generalised stochastic processes. generalised stochastic processes are of finite order, i.e. are generalised derivatives of continuous processes. is proved that the distribution at a point of a generalised Card 2 process is uniquely defined. Girsanov, I.V., Strongly

TUSHKEVICH, A.A. (Moskva).

Strong Markov processes [with summary in English]. Teor. veroist. i ee prim. 2 no.2:187-213 '57. (MIRA 10:11) (Probabilities)

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